Performance-Adjusting Device for Inertia Sensor

Abstract

A performance-adjusting device for inertia device is constructed by both suspension structure and micro-electroplating structure. The suspension structure may be manufactured by surface micromachining technique of sacrificial layer process or bulk micromachining technique incorporating One side of the suspension structure is arranged with thin film process. firmly to a supporting piece, such that another side of the suspension The suspension side of the structure is shown as a suspension state. suspension structure is made as micro-electroplating structure through the micro-electroplating process and is functioned as inertia mass for an inertia The size of the micro-electroplating structure may be changed through the micro-electroplating process, such that the inertia sensor may be adapted for sensing in different levels. Furthermore, a microstructure of high aspect-ratio may be achieved by taking the advantage of a metal during the selection of a processing material, such that the objective for lateral sensing or driving signal may be fulfilled.

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